

# Curriculum Vitae

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## **Personal**

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## **Chronology**

08/2003 – Present : Scientist, Physics and Astronomy, U. of Rochester  
05/2002 - 07/2003 : Research Associate, Physics and Astronomy, U. of Rochester  
05/1999 - 04/2002 : Instructor Fellow, Physics and Astronomy, U. of Rochester  
09/1993 - 02/1999 : Ph.D., Physics, Korea University  
03/1991 - 02/1993 : M.S., Physics, Korea University  
03/1987 - 02/1991 : B.S., Physics, Korea University

## **Experience**

### **Scientist in the University of Rochester**

Aug. 2003 – Present

I have been studying W boson production asymmetry. Because the neutrino from W decay is not detected in the Collider Detector at Fermilab (CDF), we partially reconstruct W rapidity using measured lepton momentum, missing ET, and the given world average of W mass. The W production asymmetry is highly sensitive to the parton distributions. Also have been studying dielectron rapidity(y) distribution from  $\gamma^*/Z$  decays in the Z boson mass range and use the measurement to constrain Parton Distribution Functions better with the W production asymmetry measurement.

### **Research Associate in the University of Rochester**

May. 1999 – July 2003

### **Physics Analysis :**

Have measured the mass dependence of forward-backward charge asymmetry,  $A_{fb}$ , and production cross section,  $d\sigma/dM$ , for  $e^+e^-$  pairs with mass  $M(ee) > 40 \text{ GeV}/c^2$ . The data sample consists of 108 pb<sup>-1</sup> of ppbar collisions at  $\sqrt{s}=1.8 \text{ TeV}$  taken by the CDF during 1992-1995. The measured asymmetry and cross section are compared with the predictions of the Standard Model and a model with an extra  $Z'$  gauge boson. The results are published in **Phys. Rev. Lett 87, 131802 (2001)**.

Have studied dielectron rapidity( $y$ ) distribution from  $\gamma^*/Z$  decays in the  $Z$  mass range,  $66 < M(ee) < 116 \text{ GeV}/c^2$ , and the high mass range,  $116 < M(ee) \text{ GeV}/c^2$ . The rapidity distribution is measured up to  $|\eta| = 2.8$ . The data sample consists of 108 pb<sup>-1</sup> of ppbar collisions at  $\sqrt{s}=1.8 \text{ TeV}$  taken by the CDF during 1992-1995. The total and differential cross section are compared with the Next-Leading-Order (NLO) Quantum Chromo-dynamics (QCD) calculation using the MRST99 parton distribution function. These studies are published in **Phys. Rev. D63, 011101(R), 2000**.

### **Software :**

- **CDF Level3 Trigger**

Have written CDF level3 Trigger Objects in C++ language. Those are **Level3ModuleMap**, **Level3ModuleResults**, and **Level3ModuleSummary**. Level3ModuleMap is a mapping class of Paths, Modules, and Streams of CDF Level 3 Triggers and is attached to the begin run record of events. Level3ModuleResults consists of Level 3 Module information of tried, passed, and CPU time and is attached to the event record of each event. Level3ModuleSummary contains Level 3 summary information of Modules and Paths and is shown in the end run record of events. Based on these three objects of Level 3 Triggers in the CDF Run II, I have written Level 3 Trigger monitoring programs and incorporated them into the TrigMon of CDF online Consumer package.

- **CDF Plug event display**

Have written an event display program for CDF plug calorimeters, Plug Electromagnetic Calorimeter (PEM), Plug Hadron Calorimeter (PHA), Plug Pre-Radiator (PPR), and Plug ShowerMax (PES) detectors. This package is incorporated into CDF main event display package. This work is based on C++ language and **root** package.

- **CMS Hadron Calorimeter Quality control**

Have written various programs and scripts for quality controls of fibers and megatiles of CMS

hadron calorimeter. Those are to analysis data, make plots, write summary outputs, and make ntuples for further analysis. These are based on the **Fortran** language and the **Pearl** script.

## **Hardware :**

- **CMS Hadron Calorimeter**

Have been assigned to a final quality assurance physicist for megatiles of CMS hadron calorimeter. The light yields from calibration source data (collimated and wire) and fiber scans with UV lamp are checked. The final dimensions of megatile, black line widths, and etc are measured and assured. Have worked on optical connectors and polishing blocks to ensure good quality of pin alignments and angles. Pin alignments and angles are important factors for light transmission.

- **CDF Plug Calorimeter**

Have worked on the measurement of noise level of Hadron ASD board.

- **Online Monitoring**

Have participated in monitoring CDF data acquisition since 2001. I am currently being involved in data reconstruction and reduction processes.

## **Research Assistant of Korea University/Guest Scientist of Fermilab**

Jan. 1994 - Apr. 1999

Have studied Fermilab E687 data of  $\Lambda_c^+$ 's various decay modes,  $nK^+\pi^+\pi^-$ ,  $p\pi^+\pi^-$ ,  $p\pi^+\pi^-\pi^+\pi^-$ ,  $\Lambda^0\pi^+\pi^-\pi^+$ ,  $\Xi^-K^+\pi^+$ , and  $\Xi^{*0}(1530)K^+$ . Have studied  $\Xi_c^0$  semileptonic decay modes,  $\Xi^-\mu^+ X$  and  $\Xi^-e^+ X$  using Fermilab E687 data to measure branching ratios to  $\Xi^-\pi^+$ . My studies indicated that the  $\Xi_c^0$  would decay semileptonically to modes other than  $\Xi^-l^+\nu$ , such as  $\Xi^-(n)\pi^0l^+\nu$ . The large statistical error hampers the detailed study of exclusive  $\Xi_c^0$  semileptonic decay modes further.

## **Hardware:**

- **Hadron Calorimeter**

Have deeply involved in building and testing of the Hadron Calorimeter (tile/fiber sampling calorimeter) for the Fermilab E831 (FOCUS) experiment. The Hadron Calorimeter was primary designed to provide a trigger mechanism (1st level trigger) which selects hadronic events and rejects electromagnetic background events like  $e^+e^-$  pairs by requiring a certain minimum hadronic energy. I had a sole responsibility for radioactive source (wire source with Co60) calibration and

repair/replace of the damaged or low efficiency photo-multipliers. Have studied photoelectron yield with different tile sizes and grove depths. I have been involved in most of construction processes of the calorimeter including cutting, polishing and splicing of fibers, testing spliced fibers, checking and mounting photo tubes, measuring tile by tile cross talks, and calibrations with muons and pions. Have also supervised building procedures of the calorimeter. Have written on-line monitoring program of hadron calorimeter which use Fastbus 1881M as a readout system. The calorimeter has been successfully operated during Fermilab 1996-97 fixed target runs with using the total hadronic energy trigger. The performance of the FOCUS hadron calorimeter was reported to **NIM A409, 561 (1998)**.

- **Multi-Wire Proportional Chamber**

Have built a small prototype Multi-Wire Proportional Chamber (MWPC) and studied gas mixtures for MWPC. Based on these studies, FOCUS collaboration used the Ar-Ethane (65%-35%) gas mixture during Fermilab 1996-97 fixed target runs.

- **Trigger Counters**

Have participated in checking light leakage and setting threshold for FOCUS main trigger counters.

- **Online Monitoring**

Have participated in monitoring FOCUS data acquisition during whole 1996-1997 runs. Also have being involved in data reconstruction and reduction processes.

### **Research Assistant of Korea University/Guest Scientist of KEK**

Jan. 1992 - Oct. 1992

Have installed KORALZ Monte Carlo at AMY collaborations and made comparison to other generators. Analyzed 1 prong and 3 prong of  $\tau$  events to measure cross section and charge asymmetry of  $e^+e^- \rightarrow \tau^+\tau^-$  process at  $\sqrt{s} = 58$  GeV. The results were reported at Korean Physical Society meeting and published in **Phys. Lett. B331, 227 (1994)**.

Have also participated in monitoring data acquisition and the AMY detector at KEK.

### **Teaching assistant of Korea University (Sep. 1993 - Dec. 1993)**

Instructor in introductory undergraduate physics laboratory courses.

### **Teaching Assistant of Korea University (Mar. 1991 - Dec. 1991)**

Instructor in electronics for juniors with physics major.

## Conference talks

- Fall Meeting of the Korean Physical Society, Korea, 2001; “CMS Hadron Calorimeter at the LHC”
- Fall Meeting of the Korean Physical Society, Korea, 1998; “Measurement of  $\Xi c^0$  Semileptonic Decays”
- Fall Meeting of the Korean Physical Society, Korea, 1995; “The E831 Hadron Calorimeter”
- Fall Meeting of the Korean Physical Society, Korea, 1992; “The Measurement of Cross Section and Charge Asymmetry of  $e^+e^- \rightarrow \tau^+\tau^-$  process at  $\sqrt{s} = 58 \text{ GeV}$ ”
- The KEK annual Workshop, Japan, 1992; “The Measurement of Cross Section and Charge Asymmetry of  $e^+e^- \rightarrow \tau^+\tau^-$  process at  $\sqrt{s} = 58 \text{ GeV}$ ”

## Publications

D. Acosta et al. (CDF Collaboration), “Search for Associated Production of Upsilon and Vector boson in p anti-p collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”, Phys. Rev. Lett. 90 221803 (2003).

J.M. Link et al. (Focus Collaboration), “Measurements of  $\Xi_c^0$  Branching Ratios”, FERMILAB-PUB-03-134-E (2003).

D. Acosta et al. (CDF Collaboration), “Search for Pair Production of Scalar Top quarks in R parity violating decay modes in p anti-p collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”, FERMILAB-PUB-03-070-E (2003).

D. Acosta et al. (CDF Collaboration), “Central Pseudo-rapidity Gaps in events with a leading anti-proton at the Fermilab Tevatron ppbar collider”, Phys. Rev. Lett. 91 011802 (2003).

J.M. Link et al. (Focus Collaboration), “Measurement of the  $\Omega_c^0$  Lifetime”, Phys. Lett. B561 41 (2003).

D. Acosta et al. (CDF Collaboration), “Search for the Super-symmetric Partner of the Top quark in Dilepton events from ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”, Phys. Rev. Lett. 90 251801 (2003).

J.M. Link et al. (Focus Collaboration), “Study of the Cabibbo Suppressed Decay Modes  $D^0 \rightarrow \pi^-\pi^+$  and  $D^0 \rightarrow K^-K^+$ ”, Phys. Lett. B555 167 (2003).

D. Acosta et al. (CDF Collaboration), “Cross-section for forward J/Psi production in ppbar collisions at

$\sqrt{s} = 1.8 \text{ TeV}$ ", Phys. Rev. D66, 092001 (2002).

D. Acosta et al. (CDF Collaboration), "Search for long lived Charged Massive Particles ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ", Phys. Rev. Lett. 90 081802 (2002).

J.M. Link et al. (Focus Collaboration), "Study of Hadronic Five-Body Decays of Charmed Mesons", Phys. Lett. B561 225 (2003)..

Yeon Sei Chung, "Measurement of Cascade C0 Semileptonic Decays", FERMILAB-THESIS-1999-58 (1999).

D. Acosta et al. (CDF Collaboration), "Search for a W-Prime boson decaying to a top and bottom quark pair in  $\sqrt{s} = 1.8 \text{ TeV}$  ppbar collisions", Phys. Rev. Lett. 90 081802 (2002).

D. Acosta et al. (CDF Collaboration), "Search for radiative B hadron decays in ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ", Phys. Rev. D66, 112002 (2002).

J.M. Link et al. (Focus Collaboration), "Charm system tests of CPT and Lorentz invariance with FOCUS", Phys. Lett. B556 7 (2003).

J.M. Link et al. (Focus Collaboration), "Observation of a 1750 MeV/C2 enhancement in the Diffractive Photoproduction of  $K+K^-$ ", Phys. Lett. B545 50 (2002).

D. Acosta et al. (CDF Collaboration), "Search for radiative B Hadron decays in ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ", FERMILAB-PUB-02-146-E, (2002).

J.M. Link et al. (Focus Collaboration), "New Measurements of the  $D^+ \rightarrow K^{*0} \bar{\mu} \nu$  Form-Factor Ratios", Phys. Lett. B544, 89 (2002).

J.M. Link et al. (Focus Collaboration), "A new measurement of the  $\Xi_c^0$  Lifetime", Phys. Lett. B541 211 (2002).

J.M. Link et al. (Focus Collaboration), "New Measurements of the  $\Gamma(D^+ \rightarrow K^{*0} \bar{\mu} \nu)/\Gamma(D^+ \rightarrow K^- \pi^+ \pi^+)$  and  $\Gamma(D_s^+ \rightarrow \pi^- \mu^+ \nu)/\Gamma(D_s^+ \rightarrow \pi^- \pi^+)$  Branching Ratios", Phys. Lett. B541, 243 (2002).

J.M. Link et al. (Focus Collaboration), "Measurement of the  $D^+$  and  $D^+ s$  Decays into  $K+K-K^+$ ", Phys.

Lett. B541, 227 (2002).

D. Acosta et al. (CDF Collaboration), "Momentum Distribution of charged particles in jets in dijet events in ppbar collisions at  $\sqrt{s} = 1.8$  TeV and comparisons to perturbative QCD predictions.", Submitted to Phys.Rev.D (2002).

D. Acosta et al. (CDF Collaboration), "Measurement of the ratio of B quark production cross-sections in ppbar collisions at  $\sqrt{s} = 630$  GeV and  $\sqrt{s} = 1.8$  TeV", Phys. Rev. D66, 032002 (2002).

D. Acosta et al. (CDF Collaboration), "Branching ratio measurements of exclusive B<sup>+</sup> decays to Charmonium with the Collider Detector at Fermilab", Phys. Rev. D66, 052005 (2002).

J.M. Link et al. (Focus Collaboration), "Measurements of Relative branching ratios of  $\Lambda C^+$  Decays into states containing  $\Sigma$ ", Phys. Lett. B540, 25 (2002).

D. Acosta et al. (CDF Collaboration), "Measurement of B meson Lifetimes using fully reconstructed B decays produced in ppbar collisions at  $\sqrt{s} = 1.8$  TeV", Phys. Rev. D65, 092009 (2002).

D. Acosta et al. (CDF Collaboration), "Limits on Extra Dimensions and new particle production in the exclusive Photon and Missing energy signature in ppbar collisions at  $\sqrt{s} = 1.8$  TeV", Phys. Rev. Lett. 89, 281801 (2002).

D. Acosta et al. (CDF Collaboration), "Charged Jet evolution and the underlying event in ppbar collisions at  $\sqrt{s} = 1.8$  TeV", Phys. Rev. D65, 092002 (2002).

J.M. Link et al. (Focus Collaboration), "The Target Silicon Detector for the FOCUS Spectrometer", Submitted to NIM, (2002).

J.M. Link et al. (Focus Collaboration), "New Measurements of the D<sup>0</sup> and D<sup>+</sup> Lifetimes", Phys. Lett. B537, 192 (2002).

J.M. Link et al. (Focus Collaboration), "Evidence for new interference phenomena in the decay D<sup>+</sup> → K<sup>-</sup> π<sup>+</sup> μ<sup>+</sup> ν", Phys. Lett. B535, 43 (2002).

D. Acosta et al. (CDF Collaboration), "Search for new Physics in Photon lepton events in ppbar collisions at  $\sqrt{s} = 1.8$  TeV", Phys. Rev. Lett. 89, 041802 (2002).

J.M. Link et al. (Focus Collaboration), “A high statistics measurement of the  $\Lambda C^+$  Lifetime”, Phys. Rev. Lett. 88, 161801 (2002).

D. Acosta et al. (CDF Collaboration), “Upsilon production and Polarization in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. Lett. 88, 161802 (2002).

D. Acosta et al. (CDF Collaboration), “Comparison of the Isolated direct Photon cross-sections in ppbar collisions at  $\sqrt{s} = 1.8$  TeV and  $\sqrt{s} = 0.63$  TeV”, Phys. Rev. D65, 112003(2002).

D. Acosta et al. (CDF Collaboration), “Soft and Hard Interactions in ppbar collisions at  $\sqrt{s} = 1.8$  TeV and 630 GeV”, Phys. Rev. D65, 072005 (2002).

D. Acosta et al. (CDF Collaboration), “Measurement of the  $B^+$  total Cross-Section and  $B^+$  Differential Cross-Section  $D\sigma/D PT$  in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. D65, 052005 (2002).

J.M. Link et al. (Focus Collaboration), “Measurement of natural widths of  $\Sigma C^0$  and  $\Sigma C^{++}$  Baryons”, Phys. Lett. B525, 205 (2002).

D. Acosta et al. (CDF Collaboration), “Search for single top quark production in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. D65, 091102 (2002).

D. Acosta et al. (CDF Collaboration), “Search for the decay  $B_s \rightarrow \mu\mu\pi$  in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. Lett. D65, 111101(2002).

D. Acosta et al. (CDF Collaboration), “Search for new physics in photon lepton events in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. D66, 012004 (2001).

J.M. Link et al. (Focus Collaboration), “A new measurement of the  $\Xi C^+$  lifetime”, Phys. Lett. B523, 53 (2001).

J.M. Link et al. (Focus Collaboration), “Reconstruction of Vees, Kinks,  $\Xi^-$ 's, and  $\Omega^-$ 's in the FOCUS spectrometer”, Nucl. Instrum. Meth. A484, 174 (2002).

T. Affolder et al. (CDF Collaboration), “Diffractive dijet production at  $\sqrt{s} = 630$  GeV and 1800 GeV at the Fermilab Tevatron”, Phys. Rev. Lett. 88, 151802 (2001).



J.M. Link et al. (Focus Collaboration), “Search for CP violation in the decays  $D^+ \rightarrow K_S \pi^+$  and  $D^+ \rightarrow K_S K^+$ ”, Phys. Rev. Lett. 88, 041602 (2001).

T. Affolder et al. (CDF Collaboration), “Study of the heavy flavor content of jets produced in association with W bosons in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. D65, 052007 (2002).

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T. Affolder et al. (CDF Collaboration), “Observation of diffractive J/ψ production at the Fermilab Tevatron”, Phys. Rev. Lett. 87, 241802 (2001).

T. Affolder et al. (CDF Collaboration), “Double diffraction dissociation at the Fermilab Tevatron Collider”, Phys. Rev. Lett. 87, 141802 (2001).

T. Affolder et al. (CDF Collaboration), “Charged particle multiplicity in jets in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. Lett. 87, 211804 (2001).

T. Affolder et al. (CDF Collaboration), “Search for quark lepton compositeness and a heavy W' boson using the electron neutrino channel in ppbar collisions at  $\sqrt{s} = 1.8$  TeV”, Phys. Rev. Lett. 87, 231803 (2001).

T. Affolder et al. (CDF Collaboration), “Search for new physics in events with a photon and B-Quark jet at CDF”, Phys. Rev. D65, 052006 (2002).

T. Affolder et al. (CDF Collaboration), “Search for gluinos and squarks using like sign dileptons in ppbar

collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ", Phys. Rev. Lett. 87, 251803 (2001).

T. Affolder et al. (CDF Collaboration), "Measurement of  $d\sigma/dM$  and forward backward charge asymmetry for high mass Drell-Yan  $e^+e^-$  pairs from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ", Phys. Rev. Lett. 87, 131802 (2001).

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T. Affolder et al. (CDF Collaboration), "Cross-section and heavy Quark composition of  $\gamma + \mu$ on events produced in  $p\bar{p}$  collisions", Phys. Rev. D65, 012003(2002).

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T. Affolder et al. (CDF Collaboration), “Search for the Supersymmetric partner of the Top Quark in ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”, Phys. Rev. D63, 091101 (2001).

T. Affolder et al. (CDF Collaboration), Search for neutral supersymmetric Higgs bosons in ppbar collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”, Phys. Rev. Lett. 86, 4472 (2001).

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J.M. Link et al. (Focus Collaboration), “Measurement of the  $\Sigma^0$  and  $\Sigma^{++}$  mass splittings”, Phys. Lett. B488, 218 (2000).

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